## **AMENDMENTS IN THE CLAIMS:**

- 1. (Original) A method of growing a p-type nitride semiconductor material by molecular beam epitaxy, the method comprising supplying bis(cyclopentadienyl)magnesium (Cp<sub>2</sub>Mg) during the growth process.
- 2. (Original) A method as claimed in claim 1 wherein the nitride semiconductor material is p-type (Ga,AI)N.
- 3. (Currently Amended) A method as claimed in claim 1 or 2 and comprising supplying ammonia gas during the growth process.
- 4. (Currently Amended) A method as claimed in claim 1, 2 or 3 and comprising supplying ammonia gas, gallium and Cp₂Mg to a growth chamber, thereby to grow a layer of p-type GaN.
- 5. (Currently Amended) A method as claimed in claim 1, 2 or 3 and comprising supplying ammonia gas, aluminium, gallium and Cp<sub>2</sub>Mg to a growth chamber, thereby to grow a layer of p-type AlGaN.
- 6. (Currently Amended) A method as claimed in any preceding claim 1, and comprising changing the supply rate of Cp<sub>2</sub>Mg during the growth of the nitride semiconductor material.
- 7. (Cancelled)
- 8. (Currently Amended) A method as claimed in any preceding claim 1 wherein the growth process is carried out at a temperature of at least 800°C.
- 9. (Currently Amended) A method as claimed in <del>any preceding</del> claim <u>1</u> wherein the growth process is carried out at a temperature of at least 850°C.

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10. (Currently Amended) A method as claimed in any preceding claim 1 wherein the growth process is carried out at a temperature of at least 920°C.

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- 11. (Currently Amended) A method as claimed in any preceding claim 1 wherein the growth process is carried out at a temperature of at least 950°C.
- 12. (Currently Amended) A method as claimed in any preceding claim 1 wherein the growth process is carried out at a temperature of 960°C or below.
- 13. (Currently Amended) A method as claimed in any preceding claim  $\underline{1}$  and comprising supplying Cp<sub>2</sub>Mg at a beam equivalent pressure of at least 1 x  $10^{-9}$  mbar.
- 14. (Currently Amended) A method as claimed in any preceding claim  $\underline{1}$  and comprising supplying Cp<sub>2</sub>Mg at a beam equivalent pressure of at least  $3 \times 10^{-9}$  mbar.
- 15. (Currently Amended) A method as claimed in <del>any preceding</del> claim <u>1</u> and comprising supplying Cp₂Mg at a beam equivalent pressure of 1 x 10<sup>-7</sup> mbar or below.
- 16. (Currently Amended) A method as claimed in any preceding claim <u>1</u> and comprising supplying Cp₂Mg at a beam equivalent pressure of 1.5 x 10<sup>-8</sup> mbar or below.
- 17. (Currently Amended) A method as claimed in claim 4, or in any of claims 6 to 16 when dependent from claim 4, and comprising supplying elemental gallium at a beam equivalent pressure of at least 1 x 10<sup>-8</sup> mbar.
- 18. (Currently Amended) A method as claimed in claim 4, or in any of claims 6 to 16 when dependent from claim 4, and comprising supplying elemental gallium at a beam equivalent pressure of 1 x 10<sup>-5</sup> mbar or below.

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19. (Currently Amended) A method as claimed in claim 5, or in any of claims 6 to 16 when dependent from claim 5, and comprising supplying elemental gallium and elemental aluminium at an overall beam equivalent pressure of at least 1 x 10<sup>-8</sup> mbar.

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- 20. (Currently Amended) A method as claimed in claim 5, or in any of claims 6 to 16 when dependent from claim 5, and comprising supplying elemental gallium and elemental aluminium at an overall beam equivalent pressure of 1 x 10<sup>-5</sup>mbar or below.
- 21. (Currently Amended) A p-type nitride semiconductor material grown by a method defined in claim 1 any of claims 1 to 20.
- 22. (Currently Amended) A semiconductor device comprising a layer of a p-type nitride semiconductor material grown by a method defined in <u>claim 1</u> any of claims 1 to 21.
- 23. (Original) A semiconductor device as claimed in claim 22 wherein the layer of nitride semiconductor material is a layer of p-type (Ga,AI)N.